

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of the claims in the application:

1. (Currently Amended) A method for indexing data in a network based on unique identifiers, the method comprising ~~the steps of~~:

establishing a unique location identifier for each of a plurality of data generating devices on ~~a~~ the network, the unique location identifier for identifying ~~[[the]]~~ a network location of each of the plurality of data generating devices in the network;

registering the unique location identifier of each of the plurality of data generating devices on at least one server connected to the network when each respective one of the data generating ~~[[device]]~~ devices is first used on the network;

establishing a unique identifier for data generated by the plurality of data generating devices;

registering the unique identifier for data generated by the plurality of data generating devices on the at least one server, wherein registering the unique identifier further comprises the at least one server associating the unique identifier with a first unique location identifier of a data generating device; and

the at least one server associating, ~~at the at least one server~~, the unique identifier ~~associated with the first unique location identifier~~ with a second unique location identifier of ~~a different~~ the data generating device in response to ~~movement~~ a change in a location of the data generating device ~~of data identified by the unique identifier to the different data generating device~~;

providing a plurality of servers in a tree structure, the at least one server included in the tree structure;

receiving a query from a client machine at one of the servers, wherein the query is for the data generated by the plurality of data generating devices and the query is based on the unique identifier;

the one of the servers, in response to the query received from the client machine, querying at least one parent server of the one of the servers until the second unique location identifier associated with the unique identifier is found, the at least one parent server included in the servers;

transmitting the second unique location identifier to the client machine in response to the query received at the one of the servers; and

the data generating device transmitting data generated by the data generating device to the client machine directly over a peer-to-peer connection established in response to transmitting the second unique location identifier to the client machine.

2. (Cancelled)

3. (Currently Amended) The method ~~for indexing data in a network~~ of claim 1 further comprising ~~the step of~~ storing the unique identifier on a token.

4. (Currently Amended) The method ~~for indexing data in a network~~ of claim 3 further comprising ~~the step of~~ using the token for subsequent uses of any of the plurality of data generating devices.

5. (Currently Amended) The method ~~for indexing data in a network~~ of claim 1 further comprising ~~the step of retrieving~~ data generated by one of the plurality of data generating devices by manipulating the unique identifier associated with that data.

6. (Currently Amended) The method ~~for indexing data in a network~~ of claim 5, wherein the unique identifier is transmitted to the at least one server.

Claims 7--12. (Cancelled)

13. (Currently Amended) A method for storing data based on a plurality of unique identifiers and a plurality of unique location identifiers maintained in at least one server in a network, the network including ~~having a plurality of data generating devices, the method comprising the steps of:~~

~~establishing a unique location identifier for a respective one of the plurality of data generating devices on the network at the respective one of the plurality of data generating devices;~~

registering the unique location identifiers on the at least one server when the respective one of the data generating devices is are first used on the network, wherein each one of the unique location identifiers identifies a location of a corresponding one of the data generating devices on the network;

generating a unique data identifier at ~~the~~ a respective one of the plurality of data generating devices for data generated at the respective one of the plurality of data generating devices when the data is created;

~~the at least one server storing on the at least one server~~ an association of the unique data identifiers ~~for data generated by each of the plurality of data generating devices,~~ and the unique location identifiers of each of the plurality of data generating devices that generated the data identified by the unique data identifier; and

~~the at least one server initiating a manipulation of~~changing an association of a unique identifier and a first unique location identifier of a data generating device to ~~change a unique identifier an association from of the unique identifier and a second~~ unique location identifier of ~~a first~~the data generating device in response to changing a network location of the data generating device to a unique location identifier of a second data generating device, and ~~instructing the first and second data generating devices regarding the change of unique identifier association;~~

providing a plurality of servers in a tree structure, the at least one server included  
in the servers;

receiving a query from a client machine at one of the servers, wherein the query  
is for data generated by the data generating device and the query is based on the  
unique identifier;

the one of the servers, in response to the query received from the client machine,  
sending a request to at least one parent server of the one of the servers until the unique  
identifier is found, the at least one parent server included in the servers;

transmitting the second unique location identifier to the client machine in  
response to the query received at the one of the servers; and

the data generating device transmitting data generated by the data generating device to the client machine directly over a peer-to-peer connection created in response to transmitting the second unique location identifier to the client machine.

14. (Currently Amended) The method ~~for storing data~~ of claim 13, wherein the plurality of data generating devices comprise client entities.

15. (Cancelled)

16. (Cancelled)

17. (Currently Amended) The method ~~for storing data in a network defined in~~ of claim 13, further comprising ~~the step of~~ adding new data to the network by creating a new association of another unique data identifier to a unique location identifier of an appropriate one of the plurality of data generating devices.

18. (Currently Amended) The method ~~for storing data in a network defined in~~ of claim 13, further comprising ~~the step of~~ removing data from the network by deleting an the association of a the unique data identifier to a and the second unique location identifier.

19. (Currently Amended) The method ~~for storing data defined in~~ of claim 13, further comprising ~~the step of updating data in the network by modifying an association of a~~ the unique data identifier ~~to a~~ and the second unique location identifier.

20. (Currently Amended) A computer readable medium containing computer executable code for indexing data in a network based on unique identifiers, the computer executable code comprising instructions for:

~~receiving a unique location identifier from each of a plurality of data generating devices on the network, wherein each unique location identifier identifies a location of a respective one of the plurality of data generating devices in the network;~~

~~registering the unique location identifier of one of the plurality of data generating devices in communication with the network when the one of plurality of data generating devices is first used on the network;~~

~~receiving a unique identifier generated by one of the plurality of a data generating devices when in response to the one of the plurality of data generating devices generates~~ first generating data on the network;

~~registering the unique identifier for the data generated by the one of the plurality of data generating device[[s]], wherein registering the unique identifier further comprises associating the unique identifier with a unique location identifier, and the unique location identifier identifies a location of the data generating device in the network of the one of the plurality of data generating devices; and~~

~~associating the unique identifier associated with the unique location identifier with a~~ second unique location identifier of a different the data generating device in response

to changing the location of the ~~movement of data identified by the unique identifier to~~  
~~the different data generating device;~~

one of a plurality of servers receiving a query from a client machine, wherein the  
query is for the data generated by the data generating device;

the one of the servers querying, in response to the query received from the client  
machine, at least one parent server of the one of the servers to find the second unique  
location identifier, the at least one parent server included in the servers, and the servers  
arranged in a tree structure;

transmitting the second unique location identifier to the client machine after  
receiving a response to the query sent to the at least one parent server; and

transmitting the data generated by the data generating device from the data  
generating device to the client machine over a connection created between the data  
generation device and the client machine after transmitting the second unique location  
identifier to the client machine.

21. (Previously Presented) The computer readable medium of claim 20, further  
comprising instructions for automatically detecting and integrating spontaneously added  
data generating devices at the at least one server.